

DIRECTORATE OF INTELLIGENCE

Imagery Analysis Service Notes

8 September 1967

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The IMAGERY ANALYSIS SERVICE NOTES is a periodic publication of the DDI Imagery Analysis Service, the departmental PI organization of CIA.

This publication highlights significant or timely intelligence items derived from photography.

The interpretations in this publication represent preliminary views which are subject to modification in the light of further information and more complete analysis.

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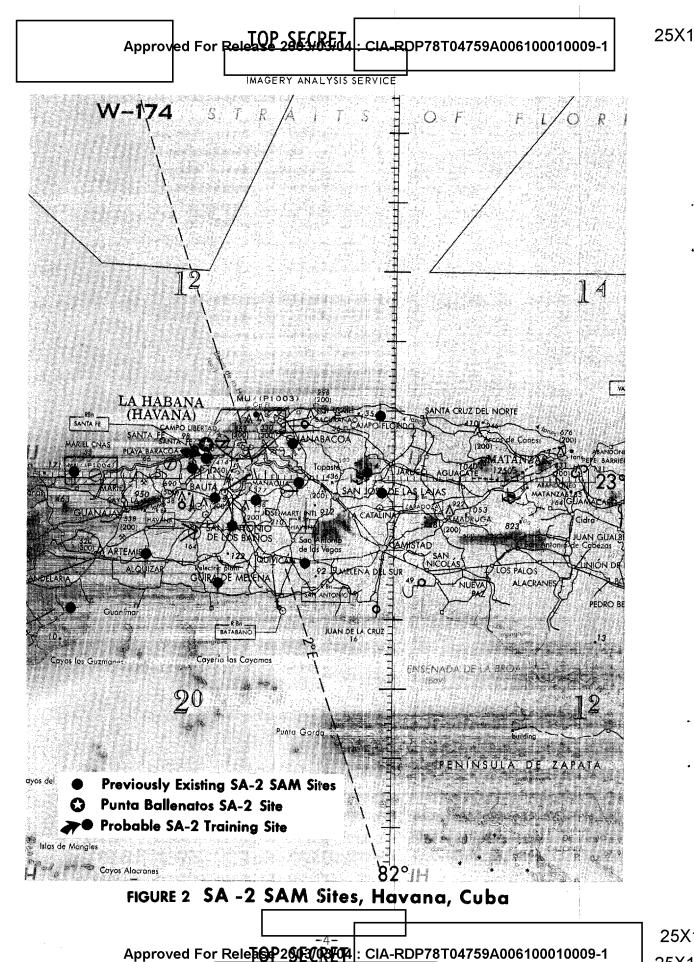
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	IMAGERY ANALYSIS SERVICE
	<u>CUBA</u>
	Conversion of SAM Site from an SA-3 to SA-2 Configuration
	The SA-3 SAM site identified under construction on photography (GLASS LAMP at Punta Ballenatos (23-04N
•	82-29W) near Havana, had been replaced by an SA-2 site when seen on photography (GLASS LAMPThe original
	construction at Punta Ballenatos was clearly being built to Soviet specifications for an SA-3 site. Though reasons for the subsequent
	change in site configuration are not known, the original constructior may have been undertaken in anticipation of Soviet SA-3 equipment which failed to materialize. The location of the site, near the
	coast and close in to Havana, is well suited to deployment of an SA-3 site. The subsequent construction of an SA-2 site in its place is
	puzzling since the pattern of existing SA-2 sites around Havana would not seem to indicate the need for another site, particularly
	one located at Punta Ballenatos (see Figure 2).
	The SA-3 site which was being built at Punta Ballenatos was the only SA-3 site ever to be identified outside the USSR. It
	consisted of four single-entrance "drive-into" launch positions arranged in a trapezoidal pattern; this is typical of SA-3
	construction techniques seen in the USSR. Earth scarring for two missile hold positions plus the outline of one service road were
	also present at the site (see Figure 3). This short spur-like service road is particularly indicative of SA-3 activity.
	It permits the missile transporter to pull up and back toward the launcher for unloading. Figures 3-5 compare the Cuban Site in an SA-3 configuration with typical Soviet SA-3 Sites.
	On the photography the original SA-3 activity was
	no longer discernible, and the construction of the SA-2 site replacing it was well along. The SA-3 launch revetments had apparently been
	levelled and their locations reworked to form four of the six new launch positions. These new positions are the usual "drive-through"
	type associated with SA-2 activity, permitting the longer SA-2 missile transporter to pass completely through the launch position
,	without turning or backing. Figures 6 and 7 compare the Cuban site in an SA-2 configuration with a typical Soviet SA-2 site.
	It should be noted that this analysis is based solely on site configurations since we have observed no missile or missile-related
	equipment at this site which would confirm the actual deployment of an operational SAM unit.
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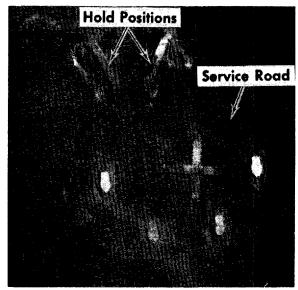


FIGURE 3
SA-3 SAM Site Under Construction,
Punta Ballenatos, Cuba

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FIGURE 4
SA-3 SAM Site B10-3
Pruzhany,USSR

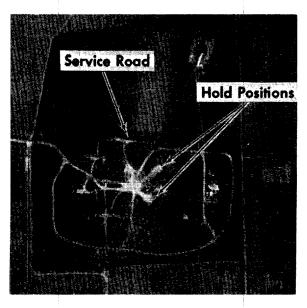


FIGURE 5
SA-3 SAM Site BO6-3 Under
Construction, Pruzhany, USSR

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Hold Positions

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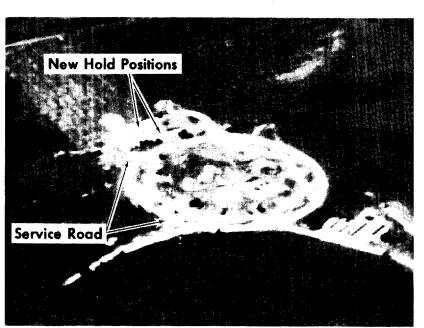


FIGURE 6 SA-2 SAM Site Under Construction,
Punta Ballenatos, Cuba



FIGURE 7 Typical Soviet SA-2 SAM Site

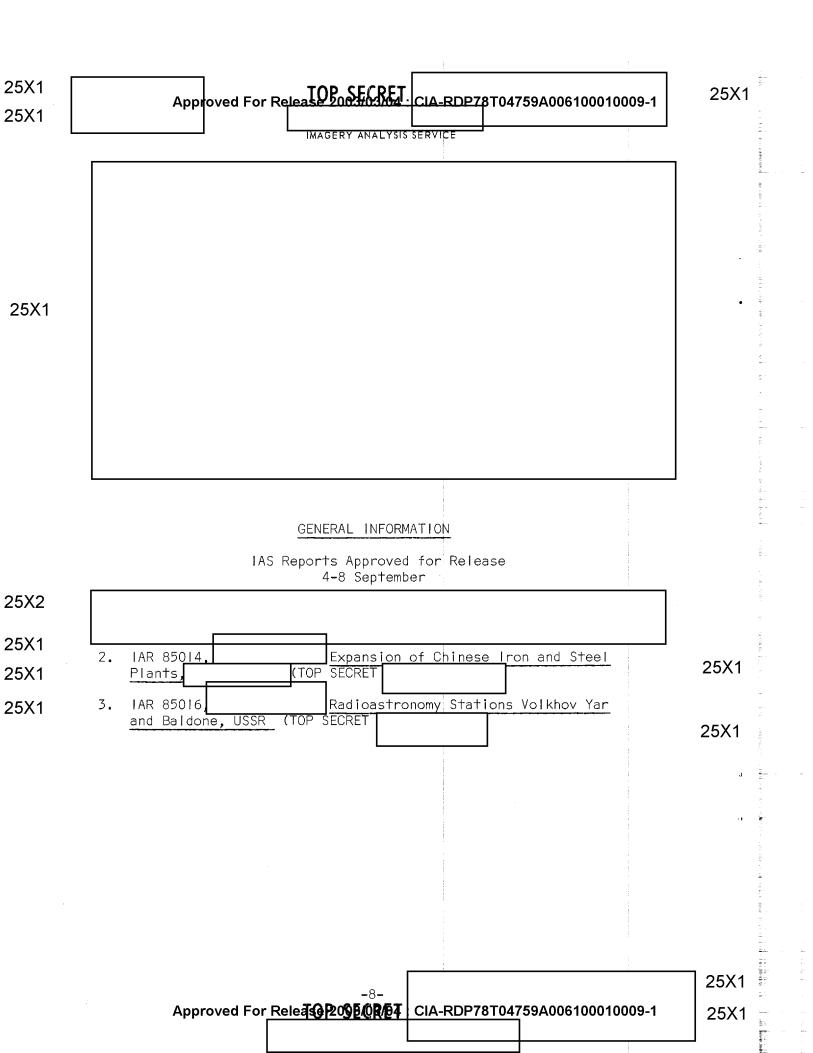
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